

10/817,454

FILE 'HOME' ENTERED AT 09:48:18 ON 18 FEB 2007

FILE 'REGISTRY' ENTERED AT 09:48:35 ON 18 FEB 2007  
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STRUCTURE FILE UPDATES: 16 FEB 2007 HIGHEST RN 921753-82-4  
DICTIONARY FILE UPDATES: 16 FEB 2007 HIGHEST RN 921753-82-4

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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<http://www.cas.org/ONLINE/UG/regprops.html>

\*\*\* YOU HAVE NEW MAIL \*\*\*

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=>  
Uploading C:\Program Files\Stnexp\Queries\10817454.str
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
L1           STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
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Structure attributes must be viewed using STN Express query preparation.

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FULL SEARCH INITIATED 09:49:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -          4256 TO ITERATE
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100.0% PROCESSED 4256 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00:00:01

1.2 2 SEA SSS EUL 1.1

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COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 09:49:07 ON 18 FEB 2007  
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FILE COVERS 1907 - 18 Feb 2007 VOL 146 ISS 9  
FILE LAST UPDATED: 16 Feb 2007 (20070216/ED)

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<http://www.cas.org/infopolicy.html>

=> s 12  
L3 1 L2

=> d 13 bib abs hitstr

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2004:878499 CAPLUS  
DN 141:328168  
TI Acyl-phosphate probes, methods for their synthesis, and their use in protein labeling  
IN Campbell, David Alan; Liyanage, Marek; Szardenings, Anna Katrin; Wu, Min  
PA Activx Biosciences, Inc., USA  
SO PCT Int. Appl., 117 pp.

CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

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PI	WO 2004090154	A2	20041021	WO 2004-US10075	20040401
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	CA 2521130	A1	20041021	CA 2004-2521130	20040401
	US 2005043507	A1	20050224	US 2004-817454	20040401
	EP 1616034	A2	20060118	EP 2004-758736	20040401
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	JP 2006526010	T	20061116	JP 2006-509592	20040401
PRAI	US 2003-459797P	P	20030401		
	WO 2004-US10075	A	20040401		
OS	MARPAT 141:328168				

AB The present invention provides tagged acyl phosphate probes ('TAPPs'), and methods of their preparation and use. The subject methods and compns. can provide enhanced simplicity and accuracy in identifying changes in the presence, amount, or activity of target proteins in a complex protein mixture, preferably nucleotide binding proteins using nucleotide binding protein-directed TAPPs. The profiling methods described herein can have a number of steps leading to the identification of target nucleotide binding protein(s) in a complex protein mixture. Thus, 32 different nucleotides labeled via a phosphate group with fluorophores or biotin were synthesized. These were used to label protein mixts. Labeled nucleotide-binding proteins were isolated by affinity chromatog. and identified by mass spectrometry.

IT 773149-45-4P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(acyl-phosphate probes, methods for their synthesis, and their use in protein labeling)

RN 773149-45-4 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[5-[3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

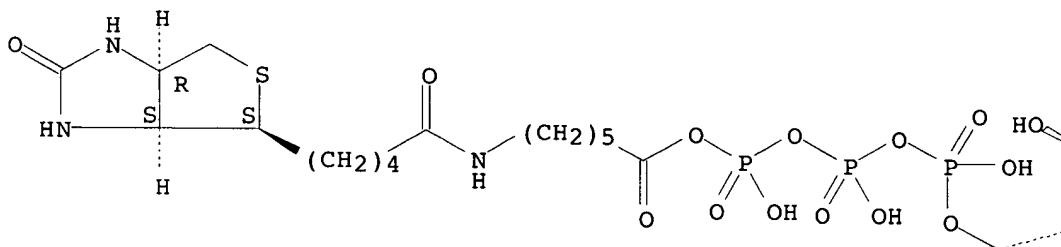
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CRN 773149-44-3

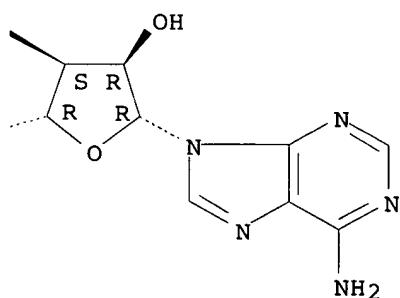
CMF C26 H41 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A

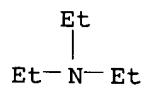


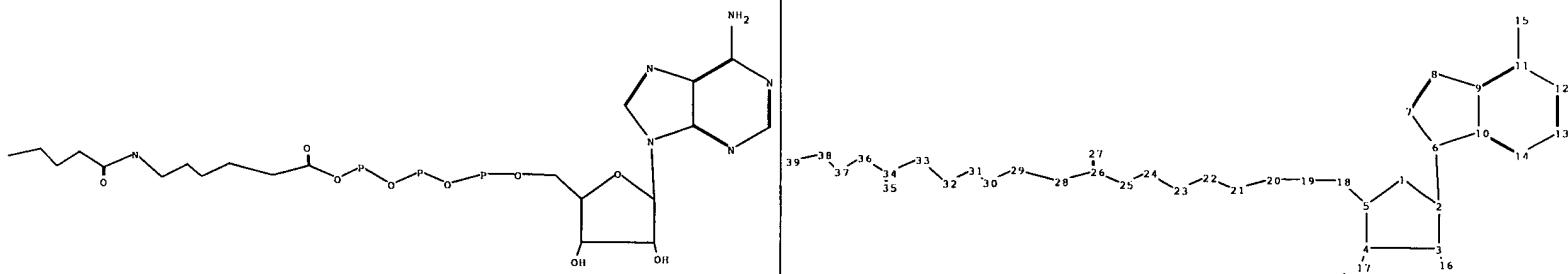
PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N





chain nodes :

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

2-6 3-16 4-17 5-18 11-15 18-19 19-20 20-21 21-22 22-23 23-24 24-25 25-26 26-27 26-28 28-29 29-30 30-31  
31-32 32-33 33-34 34-35 34-36 36-37 37-38 38-39

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 9-11 10-14 11-12 12-13 13-14

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 3-16 4-5 4-17 6-7 6-10 7-8 8-9 11-15 18-19 19-20 20-21 21-22 22-23 23-24 24-25  
25-26 26-27 32-33 33-34 34-35

exact bonds :

5-18 26-28 28-29 29-30 30-31 31-32 34-36 36-37 37-38 38-39

normalized bonds :

9-10 9-11 10-14 11-12 12-13 13-14

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:CLASS16:CLASS17:CLASS18:CLASS19:CLASS20:CLASS21:CLASS22:CLASS23:CLASS24:CLASS25:CLASS26:CLASS  
27:CLASS28:CLASS29:CLASS30:CLASS31:CLASS32:CLASS33:CLASS34:CLASS35:CLASS36:CLASS37:CLASS38:CLASS  
39:CLASS



100.0% PROCESSED 5112 ITERATIONS  
SEARCH TIME: 00.00.01

24 ANSWERS

L2 24 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
173.45 173.66

FILE 'CAPLUS' ENTERED AT 10:41:35 ON 18 FEB 2007  
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FILE COVERS 1907 - 18 Feb 2007 VOL 146 ISS 9  
FILE LAST UPDATED: 16 Feb 2007 (20070216/ED)

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=> s 12  
L3 5 L2

=> dup rem 13  
PROCESSING COMPLETED FOR L3  
L4 5 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 14 bib abs hitstr 1-5

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:87234 CAPLUS  
DN 144:345596  
TI Kinase-Catalyzed Modification of Gold Nanoparticles: A New Approach to Colorimetric Kinase Activity Screening  
AU Wang, Zhenxin; Levy, Raphaeel; Fernig, David G.; Brust, Mathias  
CS Centre for Nanoscale Science, Department of Chemistry and School of Biological Sciences, The University of Liverpool, Liverpool, L69 7ZD, UK  
SO Journal of the American Chemical Society (2006), 128(7), 2214-2215  
CODEN: JACSAT; ISSN: 0002-7863  
PB American Chemical Society  
DT Journal  
LA English  
AB Peptide-stabilized gold nanoparticles have been enzymically biotinylated by a kinase-catalyzed reaction using biotin-ATP as a cosubstrate. Upon mixing with avidin-modified particles, solns. of biotinylated particles change color from red to blue, indicating aggregation of particles. On the basis of this reaction, we have developed a simple colorimetric test to monitor kinase inhibitor activity.  
IT 773149-42-1  
RL: BSU (Biological study, unclassified); BIOL (Biological study)

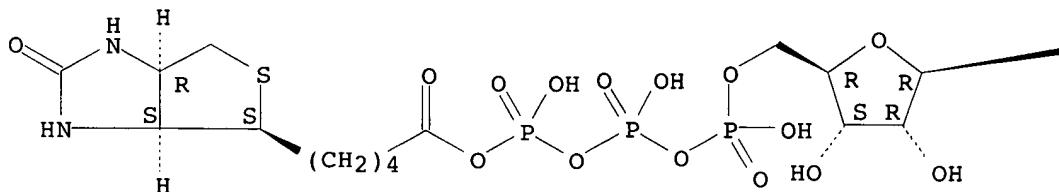
(new approach to colorimetric kinase activity screening using  
avidin-modified gold nanoparticles)

RN 773149-42-1 CAPLUS

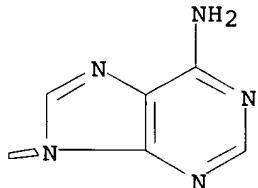
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:878499 CAPLUS

DN 141:328168

TI Acyl-phosphate probes, methods for their synthesis, and their use in  
protein labeling

IN Campbell, David Alan; Liyanage, Marek; Szardenings, Anna Katrin; Wu, Min

PA Activx Biosciences, Inc., USA

SO PCT Int. Appl., 117 pp.

CODEN: PIXXD2

DT Patent

LA English

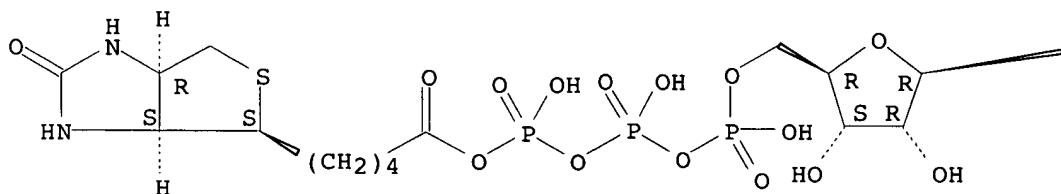
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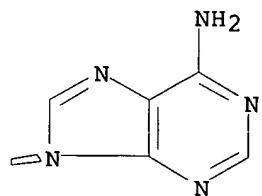
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PI	WO 2004090154	A2	20041021	WO 2004-US10075	20040401	
	WO 2004090154	A3	20050506			
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	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,				

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 CA 2521130 A1 20041021 CA 2004-2521130 20040401  
 US 2005043507 A1 20050224 US 2004-817454 20040401  
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 JP 2006526010 T 20061116 JP 2006-509592 20040401  
 PRAI US 2003-459797P P 20030401  
 WO 2004-US10075 A 20040401  
 OS MARPAT 141:328168  
 AB The present invention provides tagged acyl phosphate probes ('TAPPs'), and methods of their preparation and use. The subject methods and compns. can provide enhanced simplicity and accuracy in identifying changes in the presence, amount, or activity of target proteins in a complex protein mixture, preferably nucleotide binding proteins using nucleotide binding protein-directed TAPPs. The profiling methods described herein can have a number of steps leading to the identification of target nucleotide binding protein(s) in a complex protein mixture. Thus, 32 different nucleotides labeled via a phosphate group with fluorophores or biotin were synthesized. These were used to label protein mixts. Labeled nucleotide-binding proteins were isolated by affinity chromatog. and identified by mass spectrometry.  
 IT 773149-43-2P 773149-45-4P 773149-47-6P  
 773149-49-8P 773149-63-6P 773149-70-5P  
 773149-71-6P 773149-73-8P 773149-75-0P  
 773149-79-4P  
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation)  
 (acyl-phosphate probes, methods for their synthesis, and their use in  
 protein labeling)  
 RN 773149-43-2 CAPLUS  
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
 (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid,  
 compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)  
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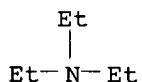
Absolute stereochemistry.

PAGE 1-A





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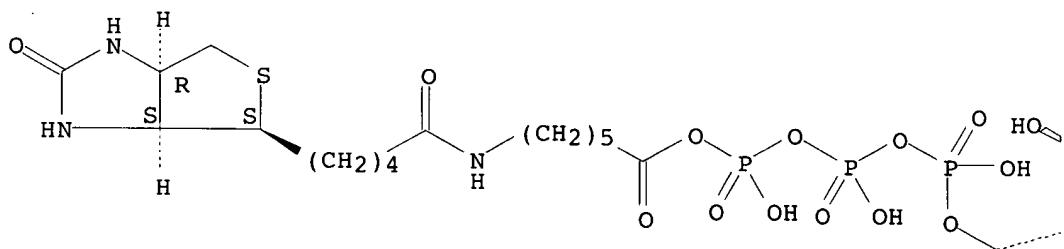
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CMF C6 H15 N

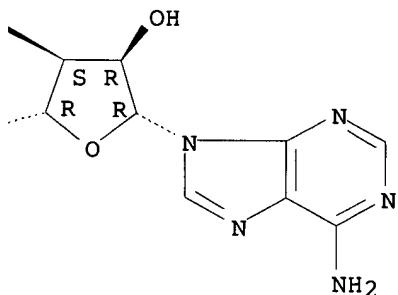
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 (9CI) (CA INDEX NAME)

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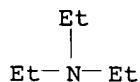
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Absolute stereochemistry.





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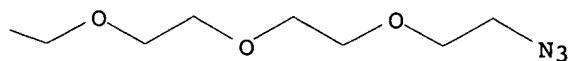
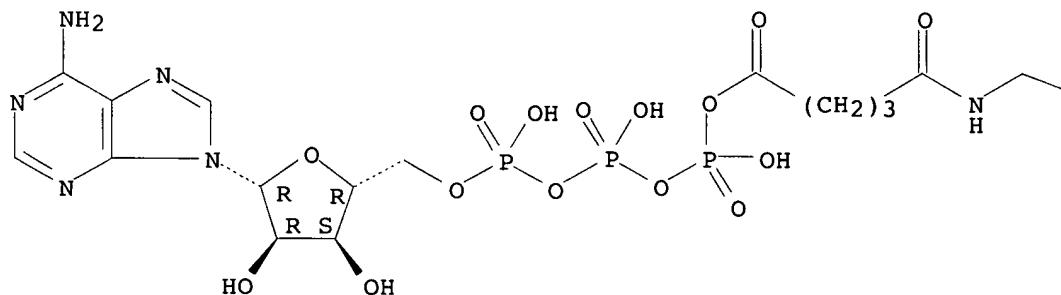
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CMF C6 H15 N

RN 773149-47-6 CAPLUS  
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 N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

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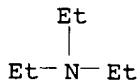
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Absolute stereochemistry.



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CRN 121-44-8  
CMF C6 H15 N



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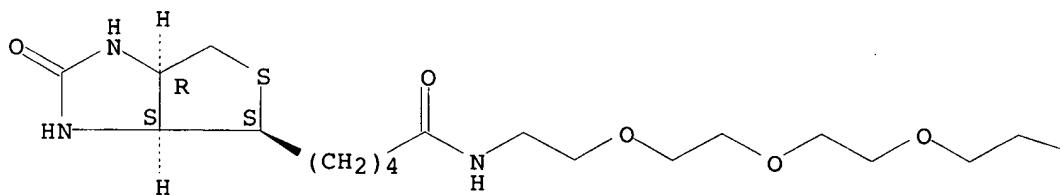
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
21-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-17-oxo-  
4,7,10,13-tetraoxa-16-azaheneicosanoic acid, compd. with  
N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

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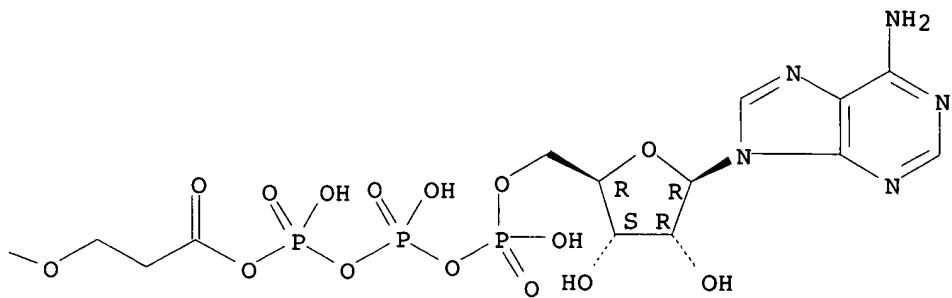
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Absolute stereochemistry.

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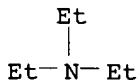


PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N



RN 773149-63-6 CAPLUS

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5-[(5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl)amino]pentanoic acid, compd. with N,N-diethylethanamine (1:2)  
(9CI) (CA INDEX NAME)

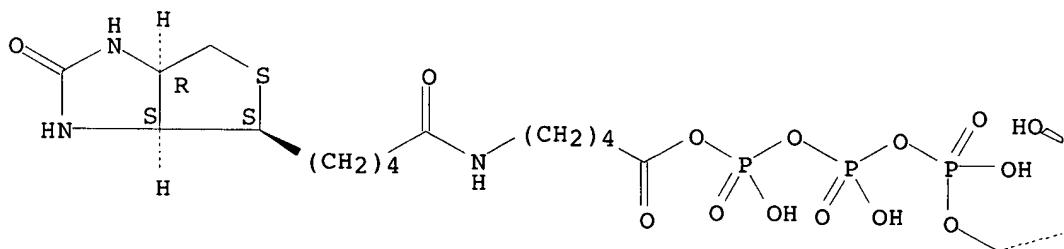
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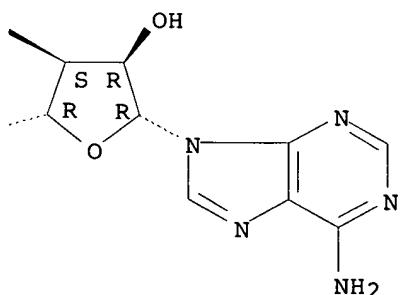
CMF C25 H39 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A



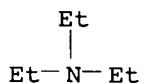
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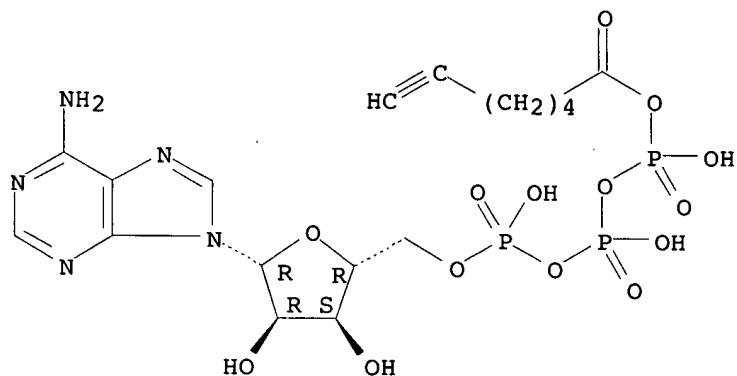
RN 773149-70-5 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-heptynoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

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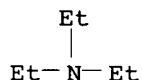
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Absolute stereochemistry.



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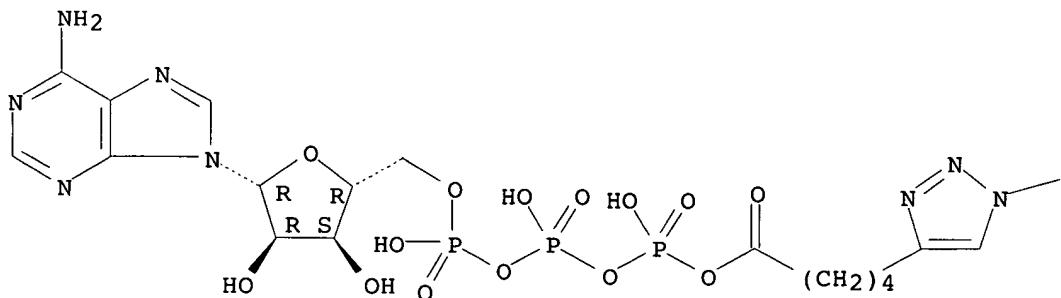


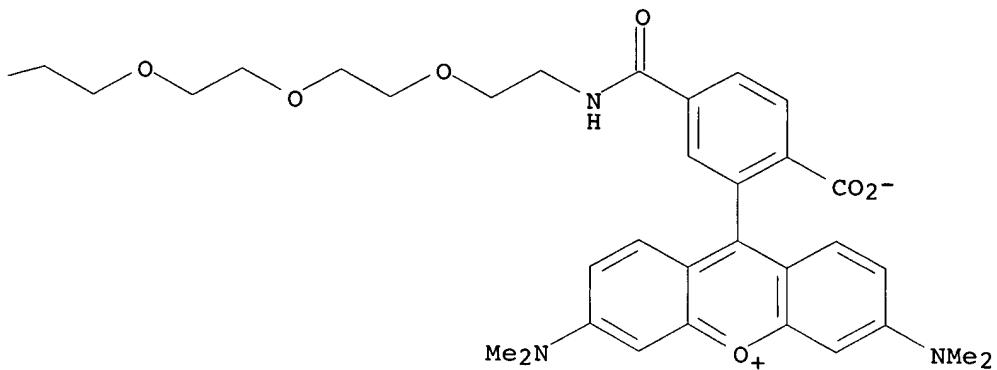
RN 773149-71-6 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 9-[2-carboxy-5-[13-[4-(4-carboxybutyl)-1H-1,2,3-triazol-1-yl]-1-oxo-5,8,11-trioxa-2-azatridec-1-yl]phenyl]-3,6-bis(dimethylamino)xanthylium inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





RN 773149-73-8 CAPLUS

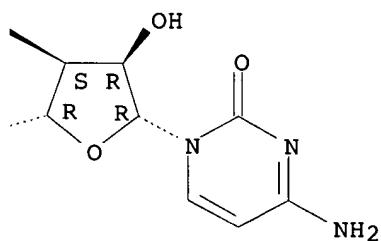
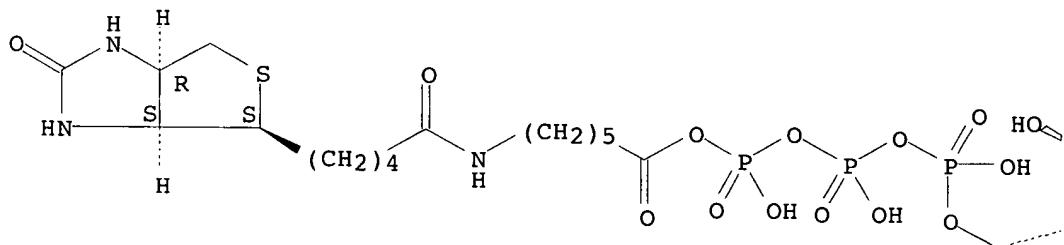
CN Cytidine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
 6-[[5-[(3aS,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
 oxpentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)  
 (9CI) (CA INDEX NAME)

CM 1

CRN 773149-72-7

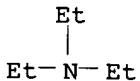
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Absolute stereochemistry.



CM 2

CRN 121-44-8  
CMF C6 H15 N



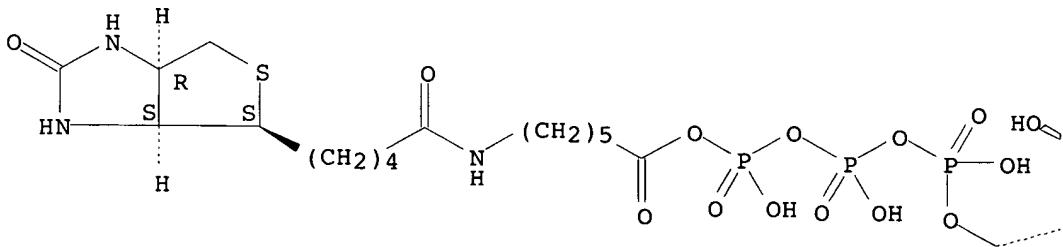
RN 773149-75-0 CAPLUS  
CN Guanosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
6-[(5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)  
(9CI) (CA INDEX NAME)

CM 1

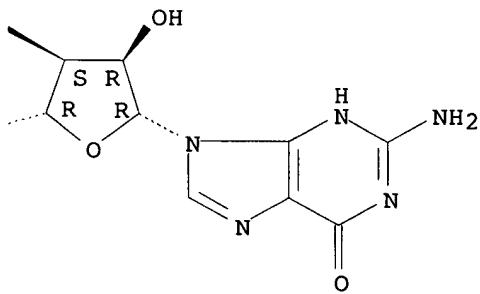
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CMF C26 H41 N8 O17 P3 S

Absolute stereochemistry.

PAGE 1-A

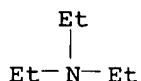


PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N



RN 773149-79-4 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
6-[(5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl)amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)  
(9CI) (CA INDEX NAME)

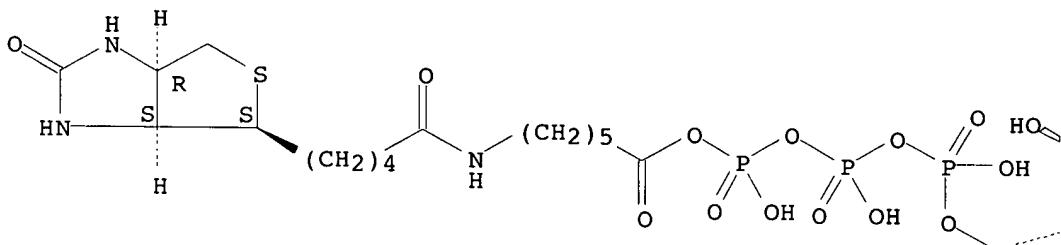
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CRN 773149-78-3

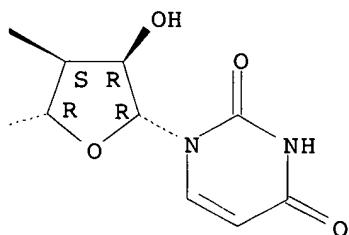
CMF C25 H40 N5 O18 P3 S

Absolute stereochemistry.

PAGE 1-A

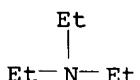


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CRN 121-44-8  
CMF C6 H15 N



L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:448706 CAPLUS

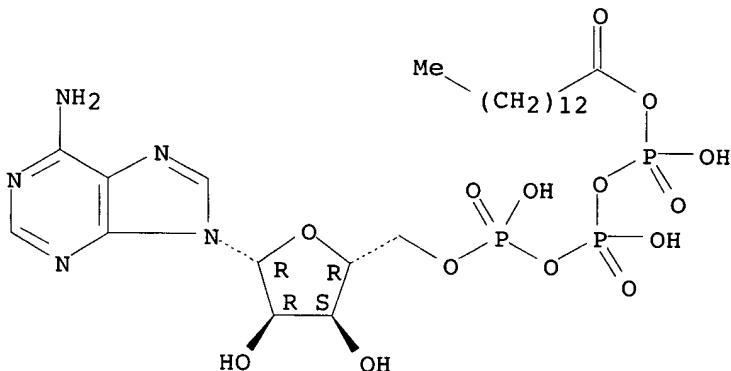
DN 131:239288

TI Synthesis and transmembrane transport studies of lipophilic adenosine

AU 5'-triphosphate derivatives  
 AU Kreimeyer, Annett; Andre, Francois; Bluzat, Aline; Gouyette, Catherine;  
 AU Huynh-Dinh, Tam  
 CS Unite de Chimie Organique, ERS 588, Institut Pasteur, Paris, F-75724, Fr.  
 SO Nucleosides & Nucleotides (1999), 18(4 & 5), 995-999  
 CODEN: NUNUD5; ISSN: 0732-8311  
 PB Marcel Dekker, Inc.  
 DT Journal  
 LA English  
 OS CASREACT 131:239288  
 AB The preparation of acyl adenosine 5'-triphosphates as potential membrane  
 permeable prodrugs is presented. The interaction of myristoyl- and  
 cholestryloxy-carbonyl-ATP with liposomes as model membranes and the  
 release of ATP inside these vesicles was investigated using an enzymic  
 assay as well as 31P-NMR spectroscopy.  
 IT 185801-52-9P 244301-30-2P  
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC  
 (Process)  
 (synthesis and transmembrane transport studies of lipophilic 5'-ATP  
 derivs.)  
 RN 185801-52-9 CAPLUS  
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
 tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA  
 INDEX NAME)

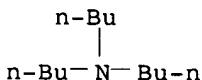
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 CMF C24 H42 N5 O14 P3

Absolute stereochemistry.



CM 2

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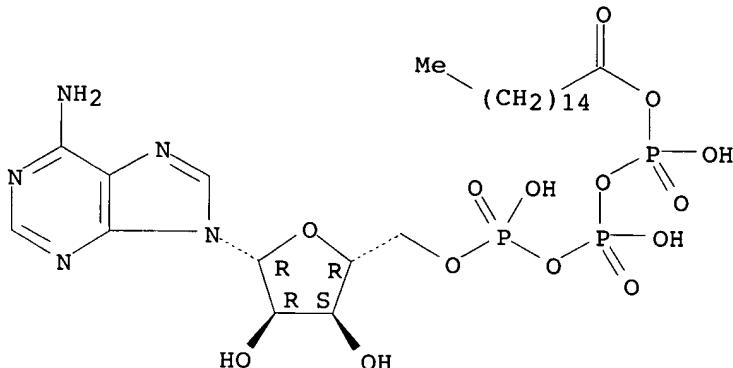


RN 244301-30-2 CAPLUS  
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with hexadecanoic  
 acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

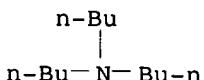
CRN 244301-29-9  
CMF C26 H46 N5 O14 P3

Absolute stereochemistry.



CM 2

CRN 102-82-9  
CMF C12 H27 N



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

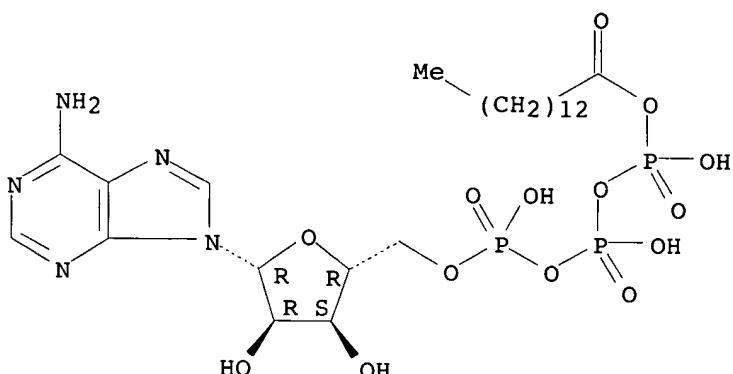
L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1996:729938 CAPLUS  
DN 126:89688  
TI Synthesis of acylphosphates of purine ribonucleosides  
AU Kreimeyer, Annett; Ughetto-Monfrin, Joel; Namane, Abdelkader; Huynh-Dinh, Tam  
CS Unite Chimie Organique, Inst. Pasteur, Paris, 75724, Fr.  
SO Tetrahedron Letters (1996), 37(48), 8739-8742  
CODEN: TELEAY; ISSN: 0040-4039  
PB Elsevier  
DT Journal  
LA English  
AB Nucleotides do not penetrate cells at a sufficient rate to realize their therapeutic potential. To overcome this limitation we have envisaged acyl nucleodi(tri)phosphates (ND(T)Ps) as suitable membrane permeable prodrugs because (a) preliminary experiences have shown that these compds. are preferably cleaved at their mixed carboxylic phosphoric bond to generate the corresponding carboxylic groups, and (b) the potential modification of the acyl group allows to vary the lipophilicity of the acyl nucleotide derivative  
IT 185801-52-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of purine ribonucleoside acylphosphates for potential therapeutic use)  
RN 185801-52-9 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

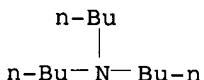
CRN 185801-51-8  
CMF C24 H42 N5 O14 P3

Absolute stereochemistry.



CM 2

CRN 102-82-9  
CMF C12 H27 N



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1987:473773 CAPLUS

DN 107:73773

TI The quantitation of biotinylated compounds by a solid-phase assay using a iodine-125-labeled biotin derivative

AU Smith, Peter J.; Warren, Robin M.; Von Holt, Claus

CS Res. Cent. Mol. Biol., UCT-CSIR, Rondebosch, 7700, S. Afr.

SO FEBS Letters (1987), 215(2), 305-10

CODEN: FEBBLA; ISSN: 0014-5793

DT Journal

LA English

AB The biotin analog biotinylglycyltyrosine has been synthesized and labeled to a specific activity of 2000 Ci/mmol with 125I. This analog has been used in conjunction with immobilized streptavidin in an assay which detects as little as 1 fmol biotin or biotinylated mols. in solution. The determination of biotinylated insulin in a tissue extract and the quantitation of a transcription assay are given as examples.

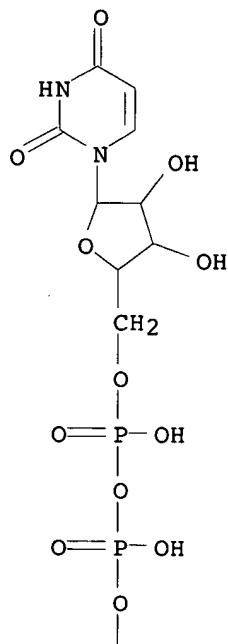
IT 109658-77-7

RL: ANT (Analyte); ANST (Analytical study)  
(determination of, in RNA)

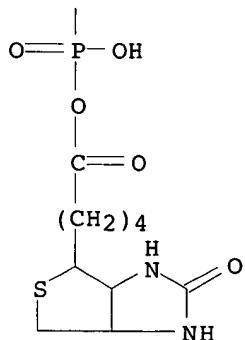
RN 109658-77-7 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid, [3aS-(3a $\alpha$ ,4 $\beta$ ,6a $\alpha$ )]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



=>

\* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \*

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FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
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DICTIONARY FILE UPDATES: 16 FEB 2007 HIGHEST RN 921753-82-4

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

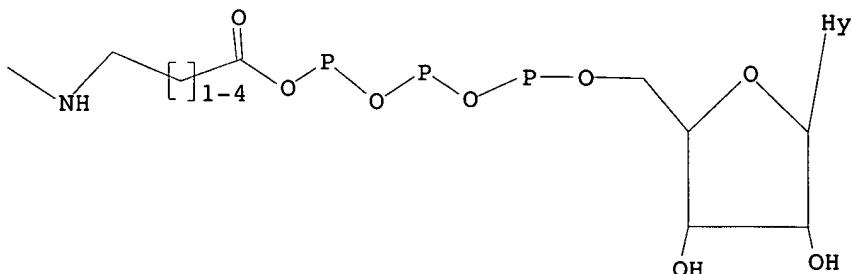
<http://www.cas.org/ONLINE/UG/regprops.html>

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L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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12 ANSWERS

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FILE LAST UPDATED: 16 Feb 2007 (20070216/ED)

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L3 1 L2

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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2004:878499 CAPLUS  
DN 141:328168  
TI Acyl-phosphate probes, methods for their synthesis, and their use in protein labeling  
IN Campbell, David Alan; Liyanage, Marek; Szardenings, Anna Katrin; Wu, Min  
PA Activx Biosciences, Inc., USA  
SO PCT Int. Appl., 117 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

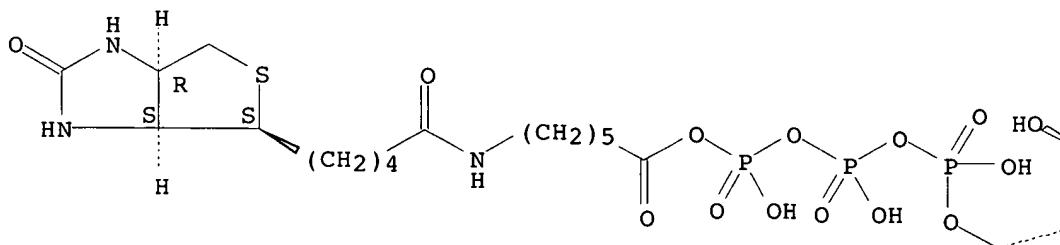
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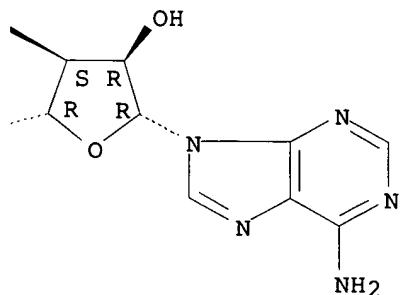
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 AU 2004227362 A1 20041021 AU 2004-227362 20040401  
 CA 2521130 A1 20041021 CA 2004-2521130 20040401  
 US 2005043507 A1 20050224 US 2004-817454 20040401  
 EP 1616034 A2 20060118 EP 2004-758736 20040401  
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR  
 JP 2006526010 T 20061116 JP 2006-509592 20040401  
 PRAI US 2003-459797P P 20030401  
 WO 2004-US10075 A 20040401  
 OS MARPAT 141:328168  
 AB The present invention provides tagged acyl phosphate probes ('TAPPs'), and methods of their preparation and use. The subject methods and compns. can provide enhanced simplicity and accuracy in identifying changes in the presence, amount, or activity of target proteins in a complex protein mixture, preferably nucleotide binding proteins using nucleotide binding protein-directed TAPPs. The profiling methods described herein can have a number of steps leading to the identification of target nucleotide binding protein(s) in a complex protein mixture. Thus, 32 different nucleotides labeled via a phosphate group with fluorophores or biotin were synthesized. These were used to label protein mixts. Labeled nucleotide-binding proteins were isolated by affinity chromatog. and identified by mass spectrometry.  
 IT 773149-45-4P 773149-47-6P 773149-63-6P  
 773149-73-8P 773149-75-0P 773149-79-4P  
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation)  
 (acyl-phosphate probes, methods for their synthesis, and their use in  
 protein labeling)  
 RN 773149-45-4 CAPLUS  
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
 oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:2)  
 (9CI) (CA INDEX NAME)

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 CMF C26 H41 N8 O16 P3 S

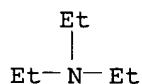
Absolute stereochemistry.

PAGE 1-A





CM 2

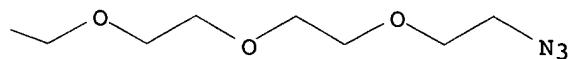
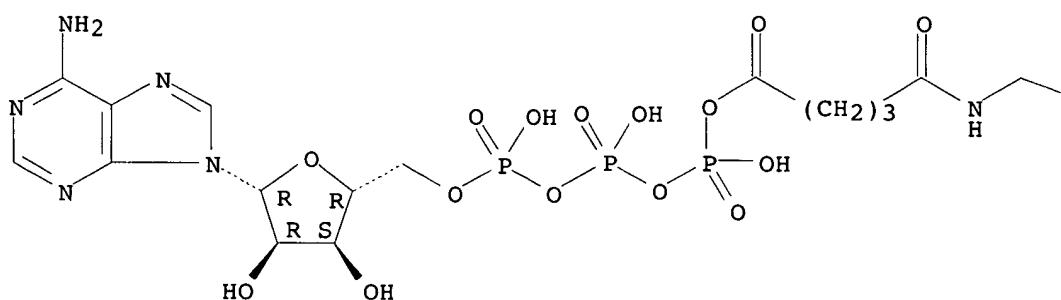
CRN 121-44-8  
CMF C6 H15 N

RN 773149-47-6 CAPLUS  
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 1-azido-13-oxo-3,6,9-trioxa-12-azaheptadecan-17-oic acid, compd. with  
 N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

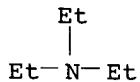
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Absolute stereochemistry.



CM 2

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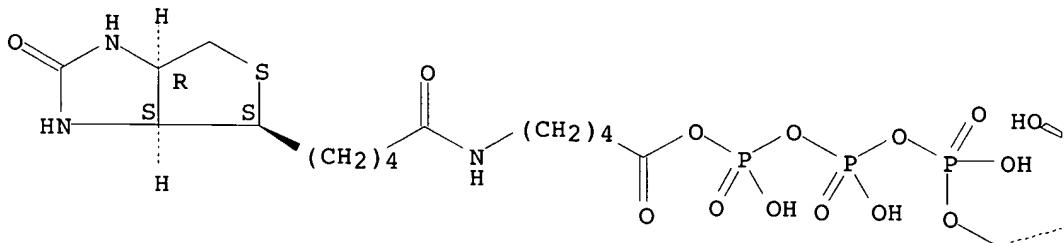
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CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
5-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl]amino]pentanoic acid, compd. with N,N-diethylethanamine (1:2)  
(9CI) (CA INDEX NAME)

CM 1

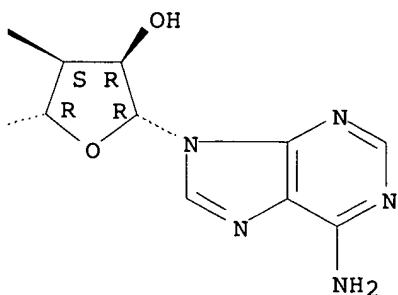
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CMF C25 H39 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A

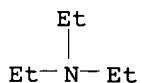


PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N



RN 773149-73-8 CAPLUS

CN Cytidine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)  
(9CI) (CA INDEX NAME)

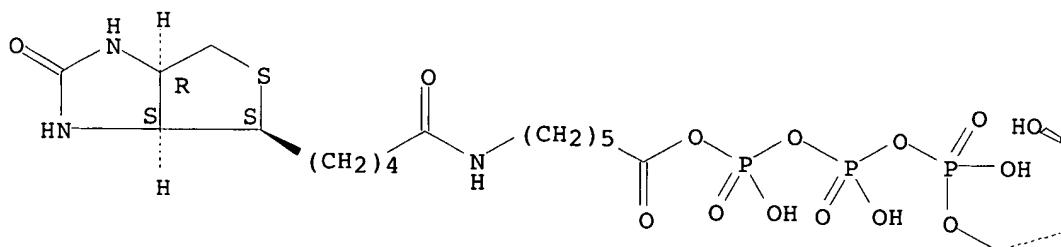
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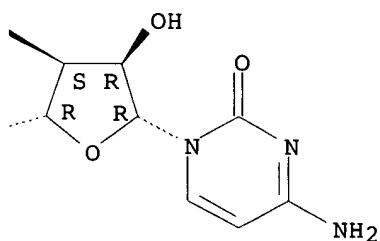
CMF C25 H41 N6 O17 P3 S

Absolute stereochemistry.

PAGE 1-A



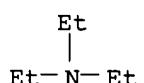
PAGE 1-B



CM 2

CRN 121-44-8

CMF C6 H15 N



RN 773149-75-0 CAPLUS

CN Guanosine 5'-(tetrahydrogen triphosphate), P''-anhydride with  
6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-  
oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)

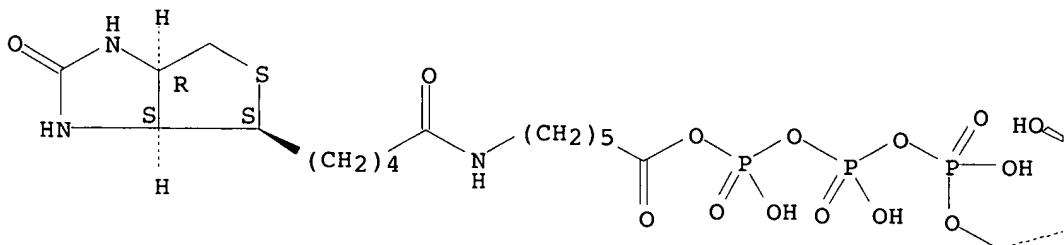
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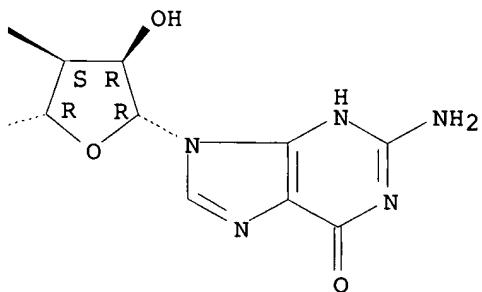
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CMF C26 H41 N8 O17 P3 S

Absolute stereochemistry.

PAGE 1-A

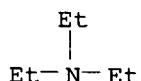


PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N



RN 773149-79-4 CAPLUS

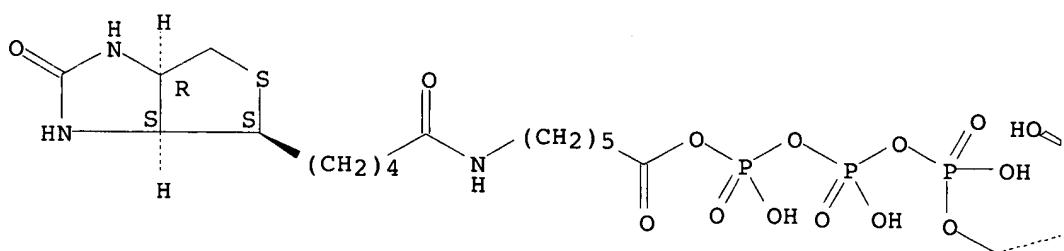
CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[(5-[(3aS,4aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl)amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

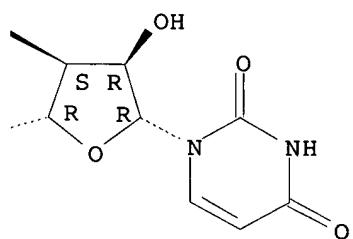
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CMF C25 H40 N5 O18 P3 S

## Absolute stereochemistry.

PAGE 1-A

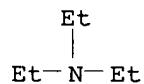


PAGE 1-B



CM 2

CRN 121-44-8  
CMF C6 H15 N



⇒